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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,494	11/20/2001	Tianmei Ouyang	LIFE040	8555
24353	7590	02/22/2005	EXAMINER	
BOZICEVIC, FIELD & FRANCIS LLP 1900 UNIVERSITY AVENUE SUITE 200 EAST PALO ALTO, CA 94303			DAVIS, RUTH A	
			ART UNIT	PAPER NUMBER
			1651	

DATE MAILED: 02/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/988,494	OUYANG ET AL.	
	Examiner	Art Unit	
	Ruth A. Davis	1651	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 November 2004.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2,4-10,33 and 44-63 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 52-63 is/are allowed.
- 6) Claim(s) 1,2,4-10,33 and 44-51 is/are rejected.
- 7) Claim(s) 49 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Applicant's amendment and affidavit filed November 24, 2004 have been received and entered into the case. Claim 43 is canceled; claims 52 – 63 are added; claims 1 – 2, 4 – 10, 33, 44 – 63 are pending and have been considered on the merits. All arguments and the affidavit have been fully considered.

Claim Objections

Claim 49 is objected to as being dependent upon a rejected base claim.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 1 – 2, 4 – 10, 33, 44 – 48 and 50 – 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ouyang and Geisler.

Applicant claims a reagent composition comprising a Group IIIA compound, a tetrazolium dye, phenazine electron transfer agent and a flavin agent present at about 1 – 15 mM. The flavin agent is FAD, the phenazine agent is PES, and the composition is dry or wet. The composition further contains an analyte oxidizing signal producing system, comprising an analyte oxidase or dehydrogenase; and an enzyme cofactor. The flavin and dye are present at a ratio of 0.02 – 17; the tetrazolium dye is present at about 1.5 – 50 mM; and the phenazine is present at about 0.01 – 50 mM. The Group IIIA is present at about 0.1 – 1.2 M, is a boron compound or boric acid. The Group IIIA and dye are present at a ratio of 50 – 800 and the compound and flavin are at a ratio or about 2 – 800.

Ouyang teaches a reagent composition comprising a tetrazolium dye, FAD (coenzyme factor), oxidases and/or dehydrogenases and PES (p.4 – 5). The composition is wet or dry (p.5 0036).

Geisler teaches fluid and powder reagent compositions for diagnostic use, the compositions comprising tetrazolium salts, boric acid, dehydrogenases and NAD (enzyme cofactor) (col.1-4).

The references do not teach the compositions with the claimed amounts, concentrations or ratios. However, at the time of the claimed invention it would have been well within the

purview of one of ordinary skill in the art to optimize amounts of effective ingredients as a matter of routine experimentation. Moreover, at the time of the claimed invention, one of ordinary skill in the art would have been motivated by routine practice to optimize the reagents of Ouyang and/or Geisler with a reasonable expectation for successfully obtaining an effective reagent composition.

The references do not teach the reagent compositions wherein both a Group IIIA compound and a flavin stabilizing agent are used. However, at the time of the claimed invention, it would have been obvious to one of ordinary skill in the art to combine the diagnostic reagents for their common use, as disclosed by the cited references above. Moreover, at the time of the claimed invention, one of ordinary skill in the art would have been motivated to combine the instant ingredients with a reasonable expectation for successfully obtaining an effective reagent composition.

Response to Arguments

Applicant argues that the references do not teach the amounts or ratios of the ingredients as claimed and provides a declaration to antedate the reference of Ouyang.

However, these arguments fail to persuade for the reasons set forth above. Moreover, at the time of the claimed invention, one of ordinary skill in the art would have been motivated by routine practice to optimize the reagents of the cited references with a reasonable expectation for successfully obtaining an effective reagent composition. Regarding the declaration, applicant states that the invention was made prior to September 9, 2001. However the publication date of

the Ouyang reference is September 5, 2001. Thus the declaration fails to antedate the cited reference. Absent evidence of unexpected results or advantages, the claims stand obvious for the reasons here and above.

Allowable Subject Matter

4. Claims 52 – 63 are free of the prior art.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 1651

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth A. Davis whose telephone number is 571-272-0915. The examiner can normally be reached on M-H (7:00-4:30); altn. F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ruth A. Davis
February 17, 2005
AU 1651



LEON B. LANKFORD, JR.
PRIMARY EXAMINER